

RECEIVED  
CENTRAL FAX CENTER

NOV 23 2005

REMARKS:

- 1) Referring to item 10) of the Office Action Summary, please accept the drawings originally filed on September 24, 2004.
- 2) Claim 1 has been amended to recite that the superabrasive layer fixed on a portion of the outer peripheral surface of the core includes a plurality of first superabrasive layers, as well as a second superabrasive layer located between respective ones of the first superabrasive layers. This amendment is supported in the original disclosure (for example see page 5 lines 24 to 26, and Figs. 1 and 2), and does not introduce any new matter. Entry and consideration of the amendment are respectfully requested.
- 3) New claims 10 to 12 have been added. The new claims are supported by the original disclosure of Figs. 1, 2, 9 and 10 showing the whirly configuration (rather than a linear radial configuration) of the reinforcing superabrasive layer 5. Thus, the new claims do not introduce any new matter. Entry and consideration thereof are respectfully requested.
- 4) Referring to page 2 of the Office Action, the rejection of claims 1 to 9 as being incomplete has been addressed in the present amendment. Namely, amended claim 1 now expressly recites that the second superabrasive layer is located between respective ones of the plural first superabrasive layers. Thus, the location of the second superabrasive layer has now been expressly and clearly defined. The further cooperative relationships, e.g. the

location of the reinforcing superabrasive layer relative to the second superabrasive layer, are now also clear and definite. Accordingly, the Examiner is respectfully requested to withdraw the rejection of claims 1 to 9 under 35 USC § 112(2).

- 5) The prior art generally discloses a cutting blade having a reinforcing layer that extends linearly and radially from the center toward the periphery of the blade. In contrast, according to present new claims 10 to 12, the reinforcing superabrasive layer is separate from a superabrasive layer provided on the peripheral surface, and has a whirly configuration (rather than a linear radial configuration) whirling outwardly from the center toward the periphery. These features of the invention achieve advantages in that the substrate can be reinforced by the reinforcing superabrasive layer, while also the chips formed during cutting can be smoothly removed toward the outer periphery of the blade.
- 6) Favorable reconsideration and allowance of the application, including all present claims 1 to 12, are respectfully requested.

Respectfully submitted,  
Akihiro KOIKE et al.  
Applicant

WFF:he/4780  
Enclosures:  
Transmittal Cover Sheet

By Walter F. Fasse  
Walter F. Fasse  
Patent Attorney  
Reg. No.: 36132  
Tel. 207-862-4671  
Fax. 207-862-4681  
P. O. Box 726  
Hampden, ME 04444-0726

CERTIFICATE OF FAX TRANSMISSION:

I hereby certify that this correspondence with all indicated enclosures is being transmitted by telefax to (571) 273-8300 on the date indicated below, and is addressed to: COMMISSIONER FOR PATENTS, P. O. BOX 1450, ALEXANDRIA, VA 22313-1450.

Walter F. Fasse 11/23/05  
Name: Walter F. Fasse - Date: November 23, 2005